

RESULTS OF FINAL QUESTIONNAIRE

Attachment 6

TABLE I

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<u>Weak Indicators</u>	<u>Strong Indicators</u>
7 Complex Variables, vector analysis, operators, matrix operations, related material. Problem Groups: basic, first session introductory--sample signals	15
6 Operational Calculus, integration; matrices; line integrals; Rieman space; common operators. Problem Groups: basic; review--sample signals	9
12 Elementary Probability, Stieltjes Integral, common distributions, histograms, independence, tests for dependence, averaging, clipped data, analog data, stationarity. Problem Groups: noise models, signal models; zero crossover, amplitude uncertainty, quantization, sampling	11
17 Applied Engineering Statistics, signal detection probability, conditional probability, common distribution, switching, prediction, filtering parameters, moments. Problem Groups: noise models for environments, processors, source inputs	12
21 Correlation, discrete and continuous, cross correlation tests, goodness of fit, significance, tau translation benefits, reconciliation of statistical approach, orthogonality, independence, error analysis. Problem Groups: noise models, signal models, approximation	1
10 Transforms, Fourier, Walsh, Laplace, clipping, analog, digital data, Z transforms Tou transforms. Problem Groups: transient and steady state responses, noise estimates	6

12	Transforms, Hilbert, Fresnel, common kernel integrals. Problem Groups: spectrum shading, multipath transmissions, media	3
7	Servo System Analysis, flow analysis, sensitivity, feedback, transfer function, impulse response, error representation, statistical approach, smoothing and filtering, prediction compensation input/output relations. Problem Groups: signal input/output consideration, collection analysis techniques control systems, guidance devices	8
10	Fields and Wave Phenomena, array configuration, gain, spacing, shading, phase, signal/noise matrices, near fields, far fields Problem Groups: arrays for sensors, sidelobe exploitation, notching, spatial filtering, ranging, localization, holography, lens design, matched filters	4
10	Detection/Optimization, detection theory, tests criteria, minimax, likelihood ratio, false alarms/dismissals, Wiener-Hopf filters, optimum recovery, sequential. Problem Groups: detection devices, operator aids	1
8	Bayesian Statistics, error probabilities, average cost minimizing, thresholding, complex nets Problem Groups: PR devices, ATR state definition, event indicators, system design	1
7	Modulation, am, fm, ppm, pam, pcm, digital, noise immunity, common error codes, redundancy, error rate estimates, polynomials error codes, fading channels. Problem Groups: telemetry, coding, data transmission, security	8

TABLE II

Distribution of Academic Degrees Among Respondents

none (supplemental schooling)	4
BS, BA	38
MS, MA	15
PhD	9

Disciplines representing mathematics, chemistry, physics, electrical engineering, mechanical engineering and life sciences.